

Figure 1

ggcgcccgcc	cgccgcccgc	ccggcccccg	gctgcctccc	ttcctccctc	cctctcttc	tecettgege	tegetegete	getegeeete	ggcgcatggg	100
ccccgcgccg	ggccccgggg	cctcgggccg	cctggcctcc	ggggtcccct	aggcccgggc	gtgggcgggg	cageceggee	t gacgcagcc	tetgtacccc	200
accaccacca	ccaccagggc	cggcggcggc	ggctgccccg	agggacgggg	ccctaggcgg	tggcgATGGG M G	GGCCGTCCGG R V R	ATCGCGCCCG I A P G	GCCTGGCGCT L A L	300
		TCAGCTCCGC S S A		GTGGATGCAG U D A D	ATGACGTCAT B U M	GACCAAAGAG T K E	GAGCAGATCT E Q I F	TCCTGCTGCA L L H	CCGCGCCCAG R A Q	400
GCCCAGTGCC A Q C Q			CTGCAGAGGC L Q R P	CAGCTGACAT A D I	AATGGAATCA M E S	GRCARAGGAT D K G H	GGGCTTCTGC A S A	ATCCACATCA S T S	GGGAAGCCTA G K P K	500
AGRAAGAGAA K E K	GGCATCTGGG A S G	ARGCTCTACC K L Y P	CTGAGTCCGA E S E	GSAGGACAAG E D K	GAGGTGCCCA E V P T	CTGGCAGCAG G S R	GCACCGAGGG H R G	CGCCCCTGCC R P C L	TGCCCGAGTG P E W	680
	CITIGCTGGC L C W P		ACCAGGTGAG P G E	GTGGTGGCTG U U A U	TGCCCTGTCC P C P	CGACTACATT D Y I	TATGACTTCA Y D F N	ATCACAAAGG H K G	CCATGCCTAC H A Y	700
CGTCGCTGTG R R C D			CTGGTGCCTG L V P G	GACACAACCG H N R	GACGTGGGCC T W A	AACTROAGOG N Y S E	AGTGTGTCAR C V K	GTTCCTGACC F L T	ARCGAGACTC N E T R	800
GTGAACGGGA E R E	GGTGTTTGAC U F D	CGC <u>CTGGGCA</u> R L G M	TGRTCTACAC I Y T	CGTGGGCTAC U G Y	1006161060	TGGCCTCCCT A S L	CACCGIGGCC I U A II	GIGCICATCC U L I L	TGGCDTACTT A Y F	900
CAGGCGGCTG R R L	CACTGCACAC H C T R	GCAACTACAT N Y I	ссяс <u>ятьсяс</u> н м н	CIGITCCIGI L F L S	CCTTCATGCT F M L	TCGCGCCGTG R A U	RGCAICTICG	TCARGGACGC K D A	GGTGCTCTAD V L Y	1000
		GGCCGAGCGC	стсясодядо	ARGRECTECE	CGCCATCGCC	CAGGCACCCC	CGCCGCCCAC	cecceccec	GGCTACGCGG	1100
SGAT	LDE	A E R	Litt	ELR	AIA	ц н Р Р	P P 1	A	G Y A G	
		TTCTTCCTTI	ATTTCCTGGC	CACCAACTAC T N Y	тесбораттс	1661668666 U E G	[1]			1200
GCTGCAGGGT C R U	AGCTGTGACC A U T	TTCTTCCITI F F L Y ACCTGTGGGG	ATTTCCTGGC F L A	CACCAACTAC	TACTGGATIC Y W I L	TGGTGGAGGG U E G IV	6010101066	CATAGICICA H S L I TCAGCGIGAG S U R	TCTTCATGGO F M A	1200
GCTGCAGGGT C R U CTTCTTGTCA F F S	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA	TTCTTCCTTT F F L Y ACCTGTGGGG	ATTTCCTGGC F L A CTTCACGGTC F T U	CACCAACTAC T N Y TICGGCTGGG F G W G AGTGGATCAT	TACTGGATTC Y W I L GTCTGCCCGC L P A	TGGTGGAGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT	6010180016 L Y L 6010161666 R U H U CIAITGIGCI	CRINGICICA H S L I ICAGCGIGAG S U R	TCTTCATGGG F H A AGCCACCCTG A T L	
GCTGCAGGGT CRU CTICTICTOTCA FFS GCCAACACCC ANT C	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A	TTCTTCCTTT F F L Y ACCTOTTGGGG L H G CTTGAGCTCC L S S	HTTTCCTGGC F L A CTTCACGGTC F T U GGGAACAAGA G H K K GGGAGACCAA	CACCAACTAC T N Y TTCGGCTGGG F G H G AGTGGATCAT H I I TGCCGGCCGG	THOTIGORITIC Y W I L GTCTGCCGC L P A CCAGGTGCCC Q U P TGTGACACGC	TGGTGGRGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT I L A S GGCAGCAGCAGTA	GCTGTGTGGGG R U W U CTRITGTGGT I U L	CHIAGICICA H S L I TCAGCGIGAG S U R V CARCTICATO N F I CICARAICCA	TCTICATGGO F M A AGCCACCCTO A T L TIGTICATCA L F I M CACTGGTGCT	1300
GCTGCAGGGT C R U CTICTIOTCA F F S GCCAACACO A N T C ACATCGICCC I U R	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A VI	TTCTTCCTTT F F L Y ACCTGTGGGG L H G CTTGAGCTCC L S S ACCAAGCTGC T K L A ACTACATCGT	ATTTCCTGGC F L A CITCACGGTC F I U GGGAACAAGA G N K K GGGAGACCAA E I N CTTCATGGCC	CACCAACTAC T N Y TTCGGCTGGG F G H G AGTGGATCAT H I I TGCCGGCCGG	THETTOGETTE Y W I L GTETTOGECCOC L P A CCAGGTTGCCC Q U P TGTGACACGC C D T A CCGAGGTCTC	TGGTGGRGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT I L A S GGCRGCRGTA Q Q Y RGGGRGCGCTC	GCTGTGTGGGG RULUU CTATTGTGCT LUL CCGGAAGCTG RKL TGGCAAGTCC	CATAGLICA H S L I TCAGCGIGAG S U R V CARCITCATC N F I CICAGATICA L K S T AGATGCACTA	TCTTCATEGO R H A DISCORDED A L T B DISCORDED A L A J J J J A CACTAGORICAL CACTAGORICAL L J J J J J J J J J J J J J J J J J J	1300 1400
GCTGCAGGGT C R U CTICITIOT CA F F S GCCARCACCC A N T C ACATCGTCCC I U R CATGCCGCTC H P L	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A VI TTTGGCGTCC F G U H	TTCTTCCTTT F F L Y ACCTOTCGGG L H G CTTGAGCTCC L S S ACCMAGCTGC T K L R ACTMCATCGT	HTTCCTGGC F L A CTTCACGGTC F T U GGGAACAAGA G N K K GGGAGACCAA E T N CTTCATGGCC F M A	CACCAACTAC T N Y TTCGCCTGGG F G H G AGTGGATCHT H I I TGCCGGCCGG A G A ACGCCGTACA T P Y T GTTCGCAACTAC	THOTIGGHTIC Y W I L GTOTIGCCCGC L P A CCAGGTGCCC Q U P TGTGACACGC C D T A CCGAGGTCTC E U S	TGGTGGRGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT I L A S GGCAGCAGCAGTA Q Q Y AGGGACGCTC G T L	GCTGTGTGGG R V H V CTATTGTGCT I V L CCGGARGCTG R K L TGGCAAGTCC H Q V Q TCAAGAAATC	CHIRGICICA H S L I TCAGCGIGAG S U R V CARCITCATC N F I CICAGATICA L K S T AGATGCACTA M H Y	TCTICRIGGO F M A AGCCACCCIG A T L TIGTICAICA L F I N CRCIGGIGCI L V L CGAGRIGCIC E M L	1300 1400 1500
GCTGCAGGGT C R U CTICITGTCA F F S GCCAACACCC A N T C ACATCGICCC I U R CATGCCGCTC II P L TTCAACCCC F N S F	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A VI TTTGGCGTCC F G U H TCCAGGGATT O G F	ACCTOFICACION ACCTOFICACION CITTGAGCTCC L S S ACCIANGETEC T K L R ACTICATECTIC VIII TITTGICCCC F U A	ATTICCTGGC F L A CITCACGGTC F T U GGGAACAAGA G N K K GGGAGACCAA E T N CITCATGGCC F M A ATCATATACT I I Y C GGGAGCACCAG	CACCAACTAC T N Y TTCGCCTGGG F G H G AGTGGATCHT H I I TGCCGGCCGG A G A ACGCCGTACA T P Y T GTTCGCAACTAC	THOTIGGHTTON Y W I L GTOTIGCOCGE L P H CCHGGTGCCC Q U P TGTGHCHCGC C D T H CCGHGGTCTC E U S TGGCCGHGGTH G E U GGCCCGHTGG	TGGTGGRGGG IV CGTCTTCGTG U F U ATCCTGGCCT I L A S GGCRGCRGTA Q Q Y AGGGRCGCTC G T L CRGGCCGAGR Q R E I TGTCTCRCAC	GCTGTGTGGG R U H U CTATTGTGCT I U L CCGGAAGCTG R K L TGGCAAGTCC H Q U Q TCAAGAAATC K K S	CHIRGICICA H S L I TCAGCGIGAG S U R V CARCITCATC H F I CICARATCCA L K S T AGATGCACTA H H Y CIGGAGCCGC U S R AACGTAGGCC	TCTICATGGD F M A AGCCACCCTG A T L TIGTICATCA L F I M CACTGGTGCT L U L CGAGATGCTC E M L TGGACACTGG H T L A CCCCGCGCGGG	1300 1400 1500 1600
GCTGCAGGGT CRU CTICITATOR FFS GCCAACACACACACACACACACACACACACACACACAC	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A VI TITGGCGTCC F G U H TCCAGGGATT Q G F CAAGCGCAAG	TTCTTCCTTT F F L Y ACCTOTGGGG L H G CTTGAGCTCC L S S ACCMAGCTGC T K L R ACTACATCGT Y I U VII TITTGTCGCC F U A GCCCGGAAGTG A R S G	HTTCCTGGC F L A CTTCACGGTC F T U GGGAACAAGA G N K K GGGAGACCAA E T N CTTCATGGCC F M A ATCATATACT I I Y C GGAGCAGCAGG S S S	CACCAACTAC T N Y TTCGCCTGGG F G H G AGTGGATCAT H I I TGCCGGCCGG A G A ACGCCGTACA T P Y T GTTTCTGCAA F C N TTACAGCTAC Y S Y	THOTIGORITIC Y W I L GTOTIGOCOGO L P A CORGOTIGOCO Q U P TOTIGHORACIGO C D T A COGHOGITOTO E U S TIGGOCOHOGITO G E U COCCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	TGGTGGRGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT I L A S GGCAGCAGTA Q Q Y AGGGACGCTC G T L CAGGCCGAGA Q A E I TGTCTCACAC S H T CACCAACGGG	GCTGTGTGGGG R V H V CTATTGTGCT I V L CCGGAAGCTGA R K L TGGCAAGTCC H Q V Q TCAAGAAATC K K S GAGCGTGACC S V T	CATAGLICA H S L I TCAGCGIGAG S U R V CARCITCATO N F I CICAGATICAT AGATGCACTA M H Y CIGGAGCCGO H S R AACGTAGGCC N U G F TCCCGGGCCA	TCTICATGGD F M A AGCCACCCTG A T L TIGTTCATCA L F I N CACTGGTGCT L U L CGACGATGCTO E M L TGGACACTGG H T L A CCCCGCGCGGG R A G CACCAAGCCA	1300 1400 1500 1600
GCTGCAGGGT C R U CTICITATION F F S GCCARCACOC A N T C ACATCGICCC I U R CATGCCGCTC H P L TICARCICCI F N S F CCCTGGACT L D F ACTTGGCCTC C GGGGCCCCGG	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC U L A VI TTTGGCGTCC F G U H TCCAGGGATI Q G F CAAGCGCAAG K R K G CCCCTCAGCC P L S F	ACCTOREGED TO K L R ACCTOREGED TO R ACCCORCIGET TO R ACCORCIGET TO R ACCCORCIGET TO R ACCORCIGET TO R A	ATTTCCTGGC F L A CITCACGGTC F T U GGGAACAAGA G N K K GGGAGACCAA E T N CITCATGGCC F M A ATCATATACT ! ! Y C GGGAGCAGCAGCAG S S S GCCCGCCGCT P A A	CACCARCTAC T N Y TICGGCTGGG F G H G RGTGGATCRI H I I TGCCGGCCGG A G R ACGCCGTACA T P Y T GTTTCTGCAA F C N TTACAGCTAC Y S Y GCCGCCACCA A A T T	THETTGENTTE Y W I L GTETTGECCGE L P H CCHGGTGCCC Q U P TGTGHCHCCCC C D T H CCGHGGTCTC E U S TGGCCGHGGTH G E U GGCCCGHTGG G P M U CCHCCGCCHC T H T CCGHTGGGTTC	TGGTGGRGGG IV CGTCTTCGTG U F V RTCCTGGCCT I L A S GGCRGCRGTA Q Q Y RGGGRCGCTC G T L CRGGCCGRGR Q R E I TGTCTCRCRC S H T CRCCRRCGGC T N G	GCTGTGCGGG R U H U CTATTGTGCT I U L CCGGAAGCTG R K L TGGCAAGTCC H Q U Q TCAAGAAATC K K S GAGCGTGACC S U T CACCCCCCGA H P P I CCTGCTCGGGG	CHIRGICICA H S L I TCAGCGIGAG S U R V CARCITCATO H F I CICARATOCA L K S T AGATGCACTA H H Y CTGGAGCCGC H S R AACGTAGGCC H U G F TCCCGGGCCA P G H GCTGGACGAC	TCTICATGGD F M A AGCCACCCTG A T L TIGTTCATCA L F I N CACTGGTGCT L U L CGACGATGCTO E M L TGGACACTGG H T L A CCCCGCGCGGG R A G CACCAAGCCA	1300 1400 1500 1600 1700 1800
GCTGCAGGGT C R U CTICITIOT CA F F S GCCARCACCC A N T C ACATCGTCCC I U R, CATGCCGCTC H P L TTCARCTCCT E N S F CCCTGGACTT L D F ACTTGGCCTC L G L GGGGCCCCGG G A P	AGCTGTGACC A U T GAGAAGAAGT E K K Y GGTGCTGGGA C H D GGTGCTCGCC F G U H TCCAGGGATI O G F CAAGCGCAAG K A K G CCCCTCAGCC P L S F A CCCTCCCGGG L P A	RECOGNECTED A R S G CCCGCCTGCT R L L CACACCACCT T P P C CTGCTGCGGGGGGGGGGGGGGGGGGGGG	HTTCCTGGC F L A CTTCACGGTC F T U GGGAACAAGA G N K K GGGAGACCAA E T N CTTCATGGCC F M A ATCATATACT I Y C GGAGCAGCAGG S S S GCCCGCCGCT P A A GCCACGGCTG A T A F	CACCAACTAC T N Y TTCGGCTGGG F G H G AGTGGATCAT H I I TGCCGGCCGG A G R ACGCCGTACA T P Y T GTTTCTGCAA F C N TTACAGCTAC Y S Y GCCGCCACCA A A T T CTCCCAAAGGA P K D	THOTIGORITIC Y W I L GTOTIGOCOGO L P A CCAGGTGCCC Q V P TGTGACACGC C D T A CCGAGGTCTC E V S TIGGCCAGGTTTC G E V CCACCGCCAC T A T CCATGGGTTC D G F TGATCGGGGT	TGGTGGRGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT I L A S GGCAGCAGTA Q Q Y AGGGACGCTC G T L CAGGCCGAGA Q A E I TGTCTCACAC S H T CACCAACGGC T N G CTCAACGGCT L N G S	GCTGTGTGGGG R U H U CTATTGTGCT I U L CCGGAAGCTG R K L TGGCAAGTCC H Q U Q TCAAGAAATC K K S GAGCGTGACC S U T CACCCCCCGA H P P ! CCTGCTCGGGG C S G	CATAGICICA H S L I TCAGCGIGAG S U R CARCITICATO N F I CICAGATICAT L K S T AGATGCACTA H Y CIGGAGCCGC U S R TCCCGGGCCG H U G F TCCCGGGCCG P G H GCTGGACGAC L D E	TCTICATGGD F M A AGCCACCCTG A T L TIGTICATCA L F I M CACTGGTGCT L U L CGAGATGCTC E M L TIGGACACTGG H T L A CCCCGCGCGGGG R A G CACCAAGCCA T K P GAGGGCCTCCG	1300 1400 1500 1600 1700 1800

	Figure 2	
dPTH1 rPTH1 mPTH1 hPTH1	ATGGGGGCCG DCCGGATCGC WCCCAGCCTG GCGCTGCTAC TCTGCTGCCC AGTGGCTCAGC TCCGCATATG CGCTG ATGGGGGCCG DCCGGATCGC WCCCAGCCTG GCGCTGCTTAC TCTGCTGCCC AGTGGCTCAGC TCCGCATATG CGCTG 7	75 75 75 75
dPTH1 rPTH1 mPTH1 hPTH1	GTGGATGGGG ALGATIGTOTT MACGAAAGAG GAACAGATTT TCCTGCTGCA CCGTGCGCAG GCGCAATGTG ACAAG 1: GTGGATGGGG ALGATIGTOTT MACGAAAGAG GAACAGATTT TCCTGCTGCA CCGTGCGCAG GCGCAATGTG ACAAG 1:	50 50 50 50
dPTH1 rPTH1 mPTH1 hPTH1	CHIGCTCAAGG ANGTHICTGCA HACAGCAGGC AACATAATGG AGTCAGACAA GGGTTGGAGA CCAGCATCHA CHTCA 2 CHIGCTCAAGG ANGTHICTGCA HACAGCAGGC AACATAATGG AGTCAGACAA AGGGTTGGAGT CCAGCATCHA CHTCA 2	25 225 225 225
dPTH1 rPTH1 mPTH1 hPTH1	GGGAAGCCITA HGAAAGAGAA GGCATICIGGGA AAGTITCTACC CTGAGTCTTA AGAGAACAAG GADGTGCCCA CDGGC 3 GGGAAGCCITA HGAAAGAGAA GGCATICIGGGA AAGTITCTACC CTGAGTCTTA AGAGAACAAG GADGTGCCCA CDGGC 3	399 399 399 399
dPTH1 rPTH1 mPTH1 hPTH1	AGCAGGCAGC GAGGGCGTCC CTGTCTGCCG GAGTGGGAGA ACATCGTTTG CTGGCCATTA GGGGCACCAG GTGAA AGCAGGCGGC GAGGGCGTCC CTGTCTGCCA GAGTGGGAGA ACATCGTTTG CTGGCCATTG GGGGCACCAG GTGAA AGCAGGCGGC GAGGGCGTCC CTGTCTGCCA GAGTGGGAGA ACATCGTTTG CTGGCCATTG GGGGCACCAG GTGAA	375 375 375 375
dPTH1 rPTH1 mPTH1 hPTH1	GTGGTGGGTG THECOTTGTCC GGATTACATT TATGACTTCA ATTACAAAAGG CCATGCCTAC AGACGCTGTG ACCGC	450 450 450 450
dPTH1 rPTH1 mPTH1 hPTH1	AATGGCAGCT GGGAGGTGGT TICCHGGGCAC AACGGGACGT GGGCCAACTA CAGCGAGTGC CTCAAGTTICA TEACC	525 525 525 525
dPTH1 rPTH1 mPTH1 hPTH1	ANIGAGADE GIGAACGGA GETATTTGAC CGCCTIAGGCA TGATTTACAC CGTGGGATAC TCCATGTCTC TEGCE	600 600 600
dPTH1 rPTH1 mPTH1 hPTH1	TCCCTCAQGE TEGOGETECT CATCCTGGCC TACTTCAGGC GGCTGCACTG CACACGCAAC TACATCCACA TGCAC TCCCTCAQGE TEGOTIGTECT CATCCTGGCC TAITTTTAGGC GGCTGCACTG CACGCGCAAC TACATCCACA TGCAC TCCCTCAQGE TEGOTIGTECT CATCCTAGCC TAITTTTAGGC GGCTGCACTG CACGCGCAAC TACATCCACA TGCAC TCCCTCAQGE TAGOTIGTECT CATCCTGGCC TACTTTAGGC GGCTGCACTG CACGCGCAAC TACATCCACA TGCAC	675 675 675 675
dPTH1 rPTH1 mPTH1 hPTH1	TENTECTET COTTICATECT INCECECCETE AGCATOTICE THAAGGACEC RETECTORAC TORGEGE CA CECTOR ATESTICATECT COTTICATECT RECECCECE AGCATOTICE TRAAGGACEC RETECTORAC TORGEGITICA CECTOR ATESTICATECT COTTICATECT RECECCECE AGCATOTICE TRAAGGACEC RETECTORAC TORGEGITICA CECTOR ATESTICATECT COTTICATECT COTTICATECT RECECCECTE AGCATOTICE TRAAGGACEC RETECTORAC TORGEGED CA CECTOR	750 750 750 750
dPTH1 rPTH1 mPTH1 hPTH1	GADGAGGDE AGCGCCTCAC GGAGGAAGAG CTGCGCGCA TCGCCCAGGC ACCCCCGCCG CCCACCGCCG CCGCCG CCGCCG CCGCCG CCGCCG CCGCCG	825 812 812 824
dPTH1 rPTH1 mPTH1 hPTH1	GGCT ACGCGGGCTG CMGGGTAGGT GTGACCTTCT TCCTITATT CCTGGCTACC AACTA GGCCGCTGCC GCCGTAGGCT ACGCTGGCTG CDGCGTGGCG GTGACCTTCT TCCTGTAGTT CCTGGCTACC AACTA CGCCGCTGCC GCCGTTGGGT ACGCTGGCTG CDGTGTGGCC GTGACCTTCT TCCTGTAGTT CCTGGCTACC AACTATGCCGGCT ACGCGGGCTG CMGGGTGGCT GTGACCTTCT TCCTTTAGTT CCTGGCTACC AACTA	884 887 887 887
dPTH1 rPTH1 mPTH1 hPTH1	CTACTGGATT CTGGTGGAGG GCTGTAQCT GCATAGCCTC ATCTTCATGG CCTTGTTCTC AGAGAAGAAG TALCT CTACTGGATT CTGGTGGAGG GCTGTACTT GCACAGCCTC ATCTTCATGG CCTTGTTCTC AGAGAAGAAG TALCT CTACTGGATT CTGGTGGAGG GACTGTACTT ACACAGCCTC ATCTTCATGG CCTTGTTCTC AGAGAAGAAG TALCT CTACTGGATT CTGGTGGAGG GCCTGTACCT GCACAGCCTC ATCTTCATGG CCTTGTTCTC AGAGAAGAAG TALCT	959 962 962 962

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rPTH1	Learner are well applicable 1509019011 TEGENORIES IN ACCIDENT ACCIDENTAL ACCI	37
mPTH1	CTCCCCTTC ACCULATION APPRIAGE OF A CONTROL O	137
hPTH1	GTGGGGCTTC ACAGTCTTIGG GCTGGGGTCT GCCCGGTGTC TTCGTGGCTG TGTGGGTCAG TGTTAGAGGT ACCTT 18	137
		,
	TOTAL	109
dPTH1	TECHT A AT A TE HIGH HE LIGHT ALL HI GAGETE LIGHTANCIAN INVOLVED TO TO TO THE TOTAL AT THE PERSON OF	112
rPTH1	GGCCAACAT GGGTGCTGGG ACTGAGCTC TGGGGACAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGA TCTGT 13	112
mPTH1	GGCCAACAC GGGTGCTGGG ACTTGAGCTC DGGGAACAAA AAGTGGATCA TCCAGGTGCC CATCCTGGC TCCAT 1:	112
hPTH1	GGCCAACAGC GGGTGCTGGG AC (TOAGCTC PAGE)	
dPTH1		184
rPTH1	- HOTCOTONAC TICATAMINIT THATCAMAT CMITCOGGIG CINGCOMIA AGCINICIGIGA GACCAMINIQUE DECCUI. 1.	187
mPTH1	- E	187 187
hPTH1	TETECTICAAC TICATOUTET THATCAATAT CHTCCGGGTG CTOGCCADOR AGCTACGGGA GACCAADGC GGCCG 1	107
	GTGTGACAGG GGCAGCAGT ACCGGAAGCT GCTCAAATCC ACAGTGGTGC TCATGCGCT CTTTGGGGTC CACTA	259
dPTH1	GTGTGACAGC AGGCAGCAGT ACCGGAAGCT GCTCAGGTCC ACGTTGGTGC TCGTGCCGCT CTTTGGTGTC CACTA	262
rPTH1	- TOTOTO A CARCAGO ACONOCIAGO ACCOGAAGOT GOTOAGATOO ACGITTGGTGC THE HIGH GUACH CHILLIAGUIGH CACHA IN	262
mPTH1 hPTH1	GTGTGACADA DECAGCAGT ACCEGAAGCT GCTCAAATCC ACEDTEGTEC TEATECOOCT CTTTEGETET CACTA 1	262
WEIT1		
	Transfer of the second	334
dPTH1		33 4 337
rPTH1		337
mPTH1		337
hPTH1	CATTIGETETTE ATGECTACAC CATACACCGA GETETCAGGG ACECTTTGGC ANGTECAGAT GEACTATIGAG ATGET 1	
JDT 111		409
dPTH1 rPTH1	- ICTTCAACTCC TTCCAGGGAT TTTTTGTTGC MATCATATAC TGTTTCTGCA AINGGINGAGGI DCAGGGAGAGAINPA	412
mPTH1	CTTCAACTCC TTCCAGGGAT TTTTTGTTGC MATCATATAC TGTTTCTGCA ANGUNGAGGI MCARGUMAAA ATIMA	412
hPTH1	CTTCAACTCC TTCCAGGGAT TTTTTGTTGC NATCATATAC TGTTTCTGCA ATGGTGAGGT ACANGCTIGAG ATTAN 1	412
		1484
dPTH1	INVITED A COCCOCTOCA CACTOCOMENT GOACTTOAAG COMANAGUAU GNAGUIUGGAG INGUAGUIAC POUTA	1487
rPTH1	- I- III- III- ANTOO ACCCCCCCCA CACTCCGATT CCACTTCAAG (GIIIAAIIGUAG IPPAGIIIGAAG IP	1487
mPTH1 hPTH1	GAATTOTTEG AGCCECTEGA CACTEGGAT EGACTTCAAG CEMAAGEGAC GLAGGEGA CACCAGTAT AGCTA	1487
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	20000 DANTEDON TOTAL TOTAL SPECIAL CONTROL OF THE C	1559
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mPTH1	DESCRIPTION OF THE REPORT OF THE PROPERTY OF T	1562
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dPTH1	CCTIGGT GOCG GCCGCTGCCG CCACCACCACCACCACCACCACCACACCA	1634
rPTH1	CCTI GCCT	1616
mPTH1	CCTGCTGGCC GCCGCTGCCG CCACCACCÁC DGCCADGACC AADGGCCACC CCCAGATGCC GGCCACACC AAGCC CCTGCCT	1616 1619
hPTH1	CCTACTIGGCCAC TIGCCACCACC AACGGCCACC CTICAGCTIGCC TIGGCCATCC AAGCC	1013
	ACCEST AC	1799
dPTH1	AGGGGOCCOG ACCCTCCCOG-G-C CACACCACCT CCDACGCOG DTCCCAAGGA CGATGGGTTC CTDAA AGGGGCTCCOA GCCACTGAGA CTGAAAC CCTACCAGTC ACTIATIGCOGG ITTCCCAAGGA CGATGGATTC CTIAA GGGCGCTCCOA GCCATTGAGA ACGAAAC CATACCAGTT ACTIATIGACAG ITTCCCAAGGA CGATGGGTTC CTTAA AGGGAOCCOA GCCCTGGAGA CCCTCGAGAC CACACCACCT GCDATGGCTG DTCCCCAAGGA CGATGGGTTC CTDAA	1688
rPTH1	decentrica de Cattigaga ac daaac cataccagtt achiatigadag inteccaagga cgadggdtte ethaa	1688
mPTH1 hPTH1	AGGGANICA GCOCTGGAGA CCCTOGAGAC CADACCACCT GCHANICACTIG TTCCCAAGGA CGANGGATTC CTTAA	1694
HE 1197		
		1775
dPTH1	dectected toldedgetee adeageages creptodddge emeseedis crestated feagage as teesa	1775 1763
rPTH1	deectectee telegottee alleageage ettergegotte ettergegotte etteration in the second etteration ettera	1763
mPTH1	TIGGET CCTGC TCGGGTCTGG ATTGAGGAGGC CTCTTGGTGT CTCGGGCC CTCGCTGT AT AGGALGAG TGGGA	1769
hPTH1	GGCTCCTGC TCGGGGCTGG ACGAGGAGGC CTCCGGGGGG GWGCGGCCCC CTCCCTTGCT ECAGGAGGAG TGGGA GGCTCCTGC TCAGGGCTGG ATGAGGAGGC CTCCGGGTGT GDGCGGCCGC CTCCATTGTT ECAGGAGGAA TGGGA TGGCTCCTGC TCGGGTCTGG ATGAGGAGGC CTCTGGGTGT GDGCGGCCAC CTCCATTGTT ECAGGAGGAA TGGGA GGCTCCTGC TCAGGGCTGG ACGAGGAGGC CTCTGGGGGT GAGCGGCCAC CTGCCTGCT ACAGGAAGAA TGGGA	
407111	GACGETCATE TEA	1788
dPTH1 rPTH1	AACAGTCATG TGA	1776
mPTH1	ALACHIGTCATG TGA	1776
hPTH1	GACAGTCATG TGA	1782
	L-J (

188	200	299	399	499	595
188	200	300	400	500	591
188	200	300	400	500	591
188	200	300	400	500	593
MGAVRIARGL ALLLCCPVLS SAYALVDADD VMTKEEQIFL LHRAQAQQQK ALKEVUQRPA DIMESDKGWA SASTSGKRKK EKASGKLYPE SHEDKEVPTG	SRHRGRPCLP EWDHILCWPL GAPGEN	SLTVAVLILA YFRRLHCTRN YIHMH (FLSF MLRAVSIFVK DAVLYSGATL DEAERLTEEE LRAIADAPPP PTAAA GYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVWV SVRATLANTG CWDLSSGMKK WIIQVPILAS IVLNFILFIN IVRVLATKLR ETNAGRCDTR	QQYRKLUKST LVUMPLFGVH YIVFMATPYT EVSGTLWQYQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI WKSWSRWTLA LDFKRKARSG SSSYSYGPNV	SHISVINVGP RAGUGLPLSP RLUPAAAATT TATMINGHPPI PGHMKPQARTLPATMPA TAAPKDDGFL NGSCSGLDEE ASAPERPPAL LQEEWETVM SHISVINVGP RAGUGLPLSP RLMPATTI-NGHSQL PGHAKPQARA TET-ETURVT MAVPKDDGFL NGSCSGLDEE ASGSARPPRL LQEEWETVM AHTSVINVGP RAGUGLPLSP RLUPATTI-NGHSQL PGHAKPQARA IEN-ETIRVT MTVPKDDGFL NGSCSGLDEE ASGSARPPRL LQEEWETVM SHISVINVGP RVGUGLPLSP RLUPTATIMNGHPQL PGHAKPQTRA LETIRPA MAAPKDDGFL NGSCSGLDEE ASGPERPPAL LQEEWETVM SEG. ID No. 2A APTH1.
MGAARIARSL ALLLCCPVLS SAYALVDADD VRTKEEQIFL LHRAQAQQOK ULKEVUHTAA NIMESDKGWT PASTSGKRKK EKASGKRYPE SKENKDVPTG	SRRRGRPCLP EWDNINCWPL GAPGEN	SLTVAVLILA YFRRLHCTRN YIHMHNFLSF MLRAASIFVK DAVLYSGFTL DEAERLTEEE LHIIAQVPPP PAAAAVGYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTJFGWG LPAVFVAVWV GVRATLANTG CWDLSSGMKK WIIQVPILAS MVLNFILFIN IJRVLATKLR ETNAGRCDTR	QQYRKLURST LVUVPLFGVH YTVFMALPYT EVSGTLWQIQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI RKSWSRWTLA LDFKRKARSG SSSYSYGPNV	
MGTARIARSL ALLLCCPVLS SAYALVDADD VRTKEEQIFL LHRAQAQQOK ULKEVUHTAA NIMESDKGWT PASTSGKRKK EKARGKRYPE SHEDKEAPTG	SRRRGRPCLP EWDNINCWPL GAPGEN	SLTVAVLILA YFRRLHCTRN YIHMHNFLSF MLRAASIFVK DAVLYSGFTL DEAERLTEEE LHIIAQVPPP PAAAAVGYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTJFGWG LPAVFVAVWV GVRATLANTG CWDLSSGMKK WIIQVPILAS MVLNFILFIN IJRVLATKLR ETNAGRCDTR	QQYRKLURST LVUVPLFGVH YTVFMALPYT EVSGTLWQIQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI RKSWSRWTLA LDFKRKARSG SSSYSYGPNG	
MGTARIARGL ALLLCCPVLS SAYALVDADD VMTKEEQIFL LHRAQAQQOKK PLKEVUQRPA SIMESDKGWT SASTSGKRKK KKASGKLYPE SHEDKEAPTG	SRYRGRPCLP EWDHILCWPL GAPGEN	SLTVAVLILA YFRRLHCTRN YIHMHUFLSF MLRAVSIFVK DAVLYSGATL DEAERLTEEE LRAIADAPPP PATAAAGYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVWV SVRATLANTG CWDLSSGMKK WIIQVPILAS IVLNFILFIN IVRVLATKLR ETNAGRCDTR	QQYRKLURST LVUMPLFGVH YIVFMATPYT EVSGTLWQYQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI KKSWSRWTLA LDFKRKARSG SSSYSYGPNV	
dPTH1	dPTH1	dPTH1	dPTH1	dPTH1	dPTH1
rPTH1	rPTH1	rPTH1	rPTH1	rPTH1	rPTH1
mPTH1	mPTH1	mPTH1	mPTH1	mPTH1	mPTH1
hPTH1	hPTH1	hPTH1	hPTH1	hPTH1	hPTH1

Figure 4



